

# Female cordset

## V3-GM-BK1M-PUR-U

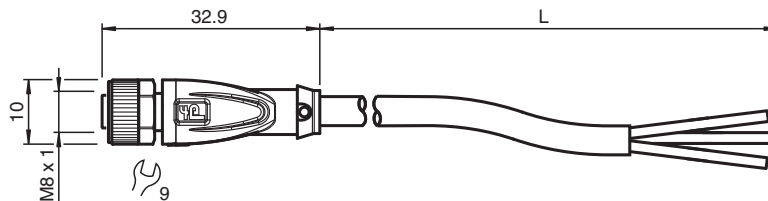


- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M8 straight A-coded, 3-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant



### Dimensions



### Technical Data

#### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| Connector 1       |  |                  |
| Connection        |  | socket           |
| Construction type |  | M8               |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 3                |
| Coding            |  | A-coded          |
| Connector 2       |  |                  |
| Connection        |  | cable end        |

#### Electrical specifications

|                   |       |                        |
|-------------------|-------|------------------------|
| Operating voltage | $U_B$ | max. 48 V AC / 60 V DC |
| Operating current | $I_B$ | max. 4 A               |

#### Conformity

|                      |  |                                    |
|----------------------|--|------------------------------------|
| Degree of protection |  | EN 60529                           |
| Plug connection      |  | connector M8 x 1 : IEC 61076-2-104 |
| Flammability         |  | UL 1581; DIN EN 60332-2-2          |
| Halogen-free         |  | IEC 60754-1                        |

#### Approvals and certificates

|                |  |                                                    |
|----------------|--|----------------------------------------------------|
| UL approval    |  | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable) |
| UL File Number |  | E231213                                            |

#### Ambient conditions

|                     |  |  |
|---------------------|--|--|
| Ambient temperature |  |  |
|---------------------|--|--|

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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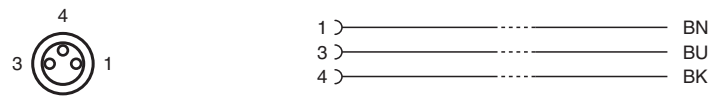
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## Technical Data

|                                  |   |                                                              |
|----------------------------------|---|--------------------------------------------------------------|
| Plug connector                   |   | -40 ... 90 °C (-40 ... 194 °F)                               |
| Cable, fixed                     |   | -40 ... 80 °C (-40 ... 176 °F)                               |
| Cable, flexing                   |   | -20 ... 80 °C (-4 ... 176 °F)                                |
| Pollution degree                 |   | 3                                                            |
| <b>Mechanical specifications</b> |   |                                                              |
| Plug connector                   |   |                                                              |
| Tightening torque                |   | 0.4 Nm                                                       |
| Loosening protection             |   | available                                                    |
| Tool installation                |   | straight knurling and hexagon nut SW = 9 mm                  |
| Mating cycles                    |   | min. 100                                                     |
| Degree of protection             |   | IP68                                                         |
| Cable                            |   | according to IEC/EN 60228 (DIN VDE 0295) class 6             |
| Sheath diameter                  |   | 4.3 mm                                                       |
| Bending radius                   |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed |
| Sheath stripping force           |   | max. 80 N / 300 mm                                           |
| Sheath color                     |   | black (similar to RAL 9005)                                  |
| Number of cores                  |   | 3                                                            |
| Core cross section               |   | 0.34 mm <sup>2</sup>                                         |
| Cores color                      |   | Core 1: brown<br>Core 3: blue<br>Core 4: black               |
| Core construction                |   | 42 x 0.1 mm Ø                                                |
| Length                           | L | 1 m                                                          |
| Cable code                       |   | Li F 9Y 11Y 3 x 0,34                                         |
| Drag chain suitability           |   |                                                              |
| Drag chain cycles                |   | min. 5000000                                                 |
| Motion velocity                  |   | max. 3.3 m/s                                                 |
| Traverse distance                |   | max. 5 m                                                     |
| Acceleration                     |   | max. 5 m/s <sup>2</sup>                                      |
| Torsion cycles                   |   | min. 1000000                                                 |
| Torsional stress                 |   | ± 180 °/m                                                    |
| <b>Material</b>                  |   |                                                              |
| PWIS free                        |   | yes                                                          |
| Halogen-free                     |   | yes                                                          |
| Plug connector                   |   |                                                              |
| Screw connection                 |   | Zinc diecast, nickel-plated                                  |
| Body                             |   | TPU, black                                                   |
| Seal                             |   | FKM                                                          |
| Contact surface                  |   | gold plated (Au)                                             |
| Flammability                     |   | V-2                                                          |
| Cable                            |   |                                                              |
| Sheathing                        |   | PUR based on polyether                                       |
| Core insulation                  |   | PP                                                           |
| UV resistance                    |   | yes                                                          |
| Chemical resistance              |   | good                                                         |
| Oil resistance                   |   | yes                                                          |
| Cooling lubricant resistance     |   | yes                                                          |
| Microbial resistance             |   | yes                                                          |
| Hydrolysis resistance            |   | yes                                                          |
| Flammability                     |   | FT2                                                          |

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Connection



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